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Γ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/917,199	., 07/27/2001	Edward J. Mack SR.	56274 (45676)	8314
	21874	7590 09/12/2003		, C	
	EDWARDS (EDWARDS & ANGELL, LLP		EXAMINER	
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	BOSTON, MIA	1 02209			
				ART UNIT	PAPER NUMBER
				1713	
			·	DATE MAILED: 09/12/2003	7

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
•	09/917,199	MACK ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Peter D. Mulcahy	1713				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM						
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a represent of the period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status		mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 27	July 2001 .					
2a)☐ This action is FINAL . 2b)☑ T	his action is non-final.					
3) Since this application is in condition for allow						
closed in accordance with the practice under Disposition of Claims	r Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
4) Claim(s) 1-26 is/are pending in the application	n.					
4a) Of the above claim(s) is/are withdra	awn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-26</u> is/are rejected.	6)⊠ Claim(s) <u>1-26</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9) The specification is objected to by the Examin						
10) The drawing(s) filed on is/are: a) acce						
Applicant may not request that any objection to the state of the proposed drawing correction filed on	• • • • • • • • • • • • • • • • • • • •					
If approved, corrected drawings are required in re		oved by the Examiner.				
12) The oath or declaration is objected to by the E						
Priority under 35 U.S.C. §§ 119 and 120	Adminor.					
13)⊠ Acknowledgment is made of a claim for foreig	an priority under 35 LLS C & 110/	a)-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☒ None of:	in priority drider 33 O.S.C. § 119(a)-(u) 01 (1).				
· _ ·	ats hove been received					
1. Certified copies of the priority documer2. Certified copies of the priority document		tion No				
<u> </u>						
 3. Copies of the certified copies of the pricapplication from the International B * See the attached detailed Office action for a lis 	ureau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for domes						
a) The translation of the foreign language provisional application has been received.						
15) Acknowledgment is made of a claim for domes						
Attachment(s) 1) X Notice of References Cited (PTO-892)	4) Interview Summa	ry (PTO-413) Paper No(s)				
1) ☑ Notice of References Cited (P10-692) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	Patent Application (PTO-152)				

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) The invention was described in (1) an application for patent, published under Section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-26 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over McCullough, U.S. 6,555,486.

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This patent shows thermally conductive polymeric material compositions which have incorporated therein thermoplastic polymers, solvents and a thermally conductive filler material. See specifically column 4 lines 19+. This portion of the patent shows the relative percentages including the higher percent as requisite claims 4-6. The Examiner maintains that this portion of the patent teaches each of applicants' claimed limitations and as such the claims are anticipated.

It is acknowledged however that this patent does not provide an example. Should one determine that this is not an anticipatory reference, then it is nonetheless highly relevant and seen to render obvious the instantly claimed invention.

There is very little selection of ingredients necessary so as to arrive at applicants' instantly claimed composition and as such one of ordinary skill in the art would in fact be motivated so as to select the ingredients as well as the relative percentages so as to formulate a composition which renders obvious applicants' instantly claimed invention.

Claims 1-26 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Cole et al., U.S. Patent 5,230,956 or Afzali-Ardakani et al., U.S. Patent 5,559,611.

Cole shows thermoplastic polymers used as sizing agents for carbon fiber composites. Applicants' instantly claimed solvents

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are clearly shown at column 5 lines 61+. It is maintained that each of applicants' claim limitations is suggested within this patent and as such it would be <u>prima facie</u> obvious to one of ordinary skill in the art to arrive at the claimed composition.

The Afzali-Ardakani patent also shows thermoplastic polymers which are therein mixed with a solvent as claimed. See column 7 lines 35+. The instantly claimed fillers are shown at column 11 lines 10+ and the specifically claimed carbon fiber is the subject of claim 15 in this patent. It is acknowledged that the enabling disclosure does not show a clear example of each of applicants' instantly claimed ingredients being used in combination falling within the amounts as claimed. However each is suggested to be utilized in combination with one another and such a suggestion is sufficient to provide the sufficient motivation for one of ordinary skill in the art so as to combine the ingredients in the manner as claimed. As such, applicants' instantly claimed invention is rendered prima facie obvious.

Claim 9 is rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicants regard as the invention.

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This claim appears to have a typographical error wherein there is no period and it appears that there is a missing ingredient. Clarification is required.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter D. Mulcahy, whose telephone number is (703) 308-2449. The examiner can normally be reached on Tuesday through Friday from 7:30 A.M. to 6:00 P.M.

The fax telephone number for this group is (703) 872-9306.

Any inquiry of general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-2351.

P. Mulcahy:cdc September 11, 2003

> PETER D. MULCAHY PRIMARY EXAMINER